



SAFETY DATA SHEET

JAC 2 - AEROSOL

Page 1

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Revision No: 2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: JAC 2 - AEROSOL

Use / description of product: For use in the Dye Penetrant Inspection Process BS EN ISO 571-1:1997 (BS EN ISO 3452-2:2006 Sensitivity level 2 when used in conjunction with penetrant family products)

Company name: Johnson and Allen Ltd

Neocol Works

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: DIMETHYL ETHER 50-70%

EINECS: 204-065-8 CAS: 115-10-6

[F+] R12

- OCTANE AND ISOMERS 30-50%

EINECS: 292-458-5 CAS: 90622-56-3

[F] R11; [Xi] R38; [N] R51/53; [Xn] R65; [-] R67

3. HAZARDS IDENTIFICATION

Main hazards: Extremely flammable. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

Other hazards: Extreme hazard. Leaks of gas or spills of liquid can readily form flammable mixtures at temperatures at or above the flash point.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness with prolonged contact

Eye contact: There may be irritation and redness.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water. Remove contaminated clothing, including shoes, and launder before re-use.

Eye contact: Bathe the eye with running water for 15 minutes. If irritation persists get medical assistance.

Ingestion: Do not induce vomiting. Keep at rest. Obtain prompt medical attention

Inhalation: Using approved respiratory protection if necessary, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. If conscious, ensure the casualty sits or lies down. Get prompt medical attention.

[cont...]

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use water spray to cool surfaces exposed to fire and protect personnel. Foam Dry chemical powder. Try to cover liquid spills with foam. Alternatively, allow fire to burn under controlled conditions.

Exposure hazards: Containers may explode if exposed to fire. See Section 10 "Stability and Reactivity".

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Eliminate all sources of ignition. If outside keep bystanders upwind and away from danger point. Warn occupants in downwind areas of fire and explosion hazard. Evacuate area and allow to evaporate.

Environmental precautions: Do not discharge into drains or rivers. Do not allow to enter sewers, surface or ground water. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas. Advise police if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Spillages should be cleaned up immediately, under maximum ventilation with dry sand, earth or other inert materials.

Clean-up procedures: Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks. The fire brigade must be present at any clean-up operation of larger spills. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Dispose of in accordance with regulations

7. HANDLING AND STORAGE

Handling requirements: Do not use near sources of ignition. Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools. Do not handle or store near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Container remains hazardous when empty - continue to observe all precautions Use good hygienic practice and housekeeping methods.

Storage conditions: Store in cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight. Store in dry conditions. Best secured in a steel cabinet especially if stored on workshop floor - observe official regulations on storing packagings with pressurized containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: DIMETHYL ETHER
WEL (8 hr exposure limit): 766 mg/m³ WEL (15 min exposure limit): 958 mg/m³

- OCTANE AND ISOMERS
WEL (8 hr exposure limit): 1200mg/m³ (250ppm)

Engineering measures: Ensure there is sufficient ventilation of the area. Local exhaust ventilation is recommended to control process emissions near the source. Provide mechanical ventilation of confined spaces. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Respiratory protection should not be necessary during normal use. Where concentrations in air may exceed exposure limits, autonomous breathing apparatus or filter material of Type A or similar should be considered.

Hand protection: Nitrile gloves. Suitable chemical resistant gloves

Eye protection: Approved safety glasses/goggles are recommended.

Skin protection: Overalls recommended. No special protection other than hands.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Aerosol

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Slightly soluble

Viscosity: Non-viscous

Boiling point/range°C: -24

Flash point°C: -42

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Sources of ignition. Heat. Hot surfaces. Flames.

Materials to avoid: Strong oxidising agents.

Haz. decomp. products: Smoke and oxides of carbon

11. TOXICOLOGICAL INFORMATION

Chronic toxicity: High vapour concentrations may be irritating to eyes and respiratory tract and may cause headaches, drowsiness, dizziness and other central nervous system effects. Frequent or prolonged contact may irritate and cause skin dryness, cracking and dermatitis. Small amounts of liquid aspirated into respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

12. ECOLOGICAL INFORMATION

Mobility: Highly volatile. Will rapidly evaporate to the air if released into the environment.

Persistence and degradability: This substance can degrade rapidly in air

Bioaccumulative potential: No data available.

Other adverse effects: Expected to be toxic to aquatic organisms Long-term adverse effects to aquatic organisms are possible if continuous exposure is maintained.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Full aerosol cans must be disposed of as hazardous waste. Empty aerosol cans should be disposed of in accordance with Local Authority Regulations.
Manufacturer can advise on recovery.

Disposal of packaging: Empty aerosols can be recycled. Packaging, card and plastics can be recycled.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1950 **ADR Class:** 2
Classification code: 5F
Shipping name: AEROSOLS
Labelling: 2.1



IMDG / IMO

UN no: 1950 **Class:** 2
EmS: F-D,S-U **Marine pollutant:** .
Labelling: 2.1

IATA / ICAO

UN no: 1950 **Class:** 2
Labelling: 2.1

15. REGULATORY INFORMATION

Hazard symbols: Extremely flammable.

Irritant.

Dangerous for the environment.



Risk phrases: R12: Extremely flammable.

R38: Irritating to skin.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S3/9/14: Keep in a cool, well ventilated place away from direct heat and sunlight.

S16: Keep away from sources of ignition - No smoking.

S23: Do not breathe gas/fumes/vapour/spray

S24: Avoid contact with skin.

SAFETY DATA SHEET

JAC 2 - AEROSOL

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S43: In case of fire, use sand, earth, chemical powder or foam

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Precautionary phrases: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R12: Extremely flammable.

R11: Highly flammable.

R38: Irritating to skin.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.